

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

11805 SW 26 Street, Room 208 Miami, Florida 33175–2474 T (786) 315–2590 F (786) 315–2599 www.miamidade.gov/pera

Johns Manville Corporation 717 17th Street Denver, CO 80202

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami–Dade County PERA – Product Control Section to be used in Miami–Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Johns Manville Built-Up Roofing Systems Over Cementitious Wood Fiber Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, and following statement: "Miami–Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami–Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

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This NOA renews and revises NOA No. 11-0330.12 and consists of pages 1 through 14. The submitted documentation was reviewed by Jorge L. Acebo.

MIAMI-DADE COUNTY
APPROVED

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ROOFING SYSTEM APPROVAL

Category: Roofing

Sub-Category: Built-up Roofing

Materials: Fiberglass

Cementitious Wood Fiber

Deck Type: Maximum Design Pressure: -82.5 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

Product	Dimensions	Test Specification	Product <u>Description</u>
Expand-O-Flash	Various	N/A	Expansion joint covers manufactured from non-reinforced, form-supported elastomeric bellows with a bifurcated waterproof attachment to metal flanges. Available in various standard configurations and may be custom manufactured to specific dimensions.
Expand-O-Guard	Various	N/A	Elastomeric expansion joint cover for vertical expansion and seismic joints. Manufactured from non-reinforced, form-supported elastomeric bellows with a bifurcated waterproof attachment to metal flanges. Available in various standard configurations and may be custom manufactured to specific dimensions.
FP-10 Vents	10" deck flange, base diameter of 4" and a height of 6".	N/A	One-way roof vent, designed for use in various roof systems, for the release of pressure created by gases or moisture vapor trapped within the roofing system.
FesCant Plus Cant Strips, and Taper Edge.	Various	TAS 110	Factory pre-fabricated cant strips and taper edge, manufactured from expanded perlite insulation.
Flex-I-Drain	Various sizes from 3" to 6"	BOCA 76-61 SBCCI 89204 UBC 3236	Two piece flexible drain system composed of a Noryl deck flange, a flexible neoprene bellows and no hub connection. Available in various sizes and styles for most retro-fit applications.
GlasBase Plus	36" x 108'	ASTM D 4601	Type II asphalt impregnated and coated glass fiber base sheet for use in conventional and modified bitumen built-up roofing.
GlasKap	36" x 36'	ASTM D 3909	Asphalt impregnated and coated felt surfaced with mineral granules used as the top ply in conventional built-up roof membranes.



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<u>Product</u>	<u>Dimensions</u>	Test Specification	Product <u>Description</u>
GlasKap CR	36" x 36'	ASTM D 3909	White mineral surfaced, white acrylic coated, fiber glass cap sheet for use as the top ply in conventional built-up roof membranes
GlasKap Plus	39-3/8" x 34'	ASTM D 3909	SBS Modified Asphaltic cap sheet used as the top ply in conventional built-up roof membranes.
GlasPly IV	36" x 180'	ASTM D 4601 Type IV	Type IV asphalt impregnated glass felt for use in conventional and modified bitumen built-up roofing.
GlasPly Premier	36" x 180'	ASTM D 2178 Type VI	Type VI asphalt impregnated glass felt for use in conventional and modified bitumen built-up roofing.
GlasTite Flexible	36" x 25' long	ASTM D 4601	Asphalt composite flashing with fiberglass scrim and two-ply polyester reinforcement, for use in conventional built-up roofing assemblies for base flashings.
Bestile Industrial Roof Cement	N/A	ASTM D 4586 Type II	General purpose medium trowel grade, cement cutback asphalt mastic reinforced with non-asbestos fibers and mineral stabilizers.
MBR Flashing Cement Activator	N/A	Proprietary	Activator component for use with MBR Flashing Cement Base
MBR Flashing Cement Base	N/A	Proprietary	A two-component elastomeric, cold application adhesive, consisting of a modified proprietary compound with an asphalt base.
PermaPly 28	36" x 106'	ASTM D 4601	Type II asphalt impregnated and coated glass fiber base sheet for use in conventional and modified bitumen built-up roofing.
Presto Lok Fascia and Flashing System	Various	TAS 114	A multi-piece fascia and flashing system for built-up and modified bitumen roofing systems manufactured from aluminum or steel. Extender plates available for wide fascia applications. This assembly meets the criteria of FMRC 1-49 for wind resistance perimeter flashing.
Ventsulation Felt	36" x 36'	ASTM D 4897 Type II	Heavy duty fiber glass base sheet impregnated and coated on both sides with asphalt with or without fine mineral stabilizer. Surfaced on the bottom side with coarse mineral granules embedded in asphaltic coating.



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APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ENRGY 3	Isocyanurate Insulation.	Johns Manville
Fesco Foam, DuraFoam	Isocyanurate Insulation with perlite facer	Johns Manville
Retro-Fit Board, DuraBoard	A high-density perlite roof insulation.	Johns Manville
Fesco Board	Rigid perlite roof insulation board.	Johns Manville

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Polymer Gyptec	Glass reinforced nylon gypsum & CWF decks fastener		OMG
2.	Polymer Gyptec Metal Plate	Square galvalume AZ55 steel plate	3" square	OMG
3.	Polymer Auger Fastener	Glass reinforced Nylon insulation fastener for gypsum & CWF decks.		Johns Manville
4.	Polymer Auger Plate	Round galvalume AZ55 steel plate	3" round	Johns Manville
5.	Twin Loc-Nail	Base sheet fastener with integrated Plate.	2.7" dia. plate	ES Products, Inc.



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EVIDENCE SUBMITTED:

Test Agency/Identifier	<u>Name</u>	Report	<u>Date</u>
Factory Mutual Research Corp.	J.I. # 3001629	Class 4470	09/10/98
1	J.I. # 3D4A4.AM	Class 4470	09/28/98
	J.I. # 3000949	Class 4470	06/05/98
	J.I. # 3001482	Class 4470	08/11/98
	J.I. # OZ8A9.AM	Class 4470	09/10/98
	3009499	Class 4470	04/04/01
	3014090	Class 4470	09/05/02
	3012974	Class 4450	06/03/02
	3011248	Class 4470	11/01/02
	3026130	Class 4470	04/26/06
	3035599	Class 4470	04/01/09
Trinity ERD	# 10390A.10.97-1	TAS 114	10/97
	# 4361-02.04-1	TAS 114	04/97
	# 10390A.12.97-1	TAS 114	12/97
	10391.01.03	TAS 114 / FM 4470	01/03
	J7670.06.08	ASTM D3909	06/16/08
PRI Construction Materials	JMC-074-02-01	ASTM D4897	04/07/12
Technologies, LLC	JMC-072-02-03	ASTM D4601	06/04/12
	JMC-072-02-02	ASTM D4601	06/04/12
	JMC-071-02-01	ASTM D2178	04/17/12
	JMC-070-02-01	ASTM D2178	04/17/12
	JMC-069-02-01	ASTM D3909	06/04/12
	JMC-081-02-01.02	TAS 117B & 117C	06/11/12
Underwriters Laboratories, Inc.	R 10167 (N)	UL 790	01/01/95
Dynatech Engineering, Inc.	4360.03.95-1 4360.03.95-2	TAS 114	3/95
	4361.5.95-1	TAS 114	5/95
Independent Roof Testing & Consulting of South Florida, Inc.	IRT 99001.1.20.99 IRT 99002.1.20.99 IRT 99003.1.20.99	TAS 114	01/20/99
IRT-ARCON, Inc.	02-026	TAS 114	07/26/02
	02-011	TAS 114	02/06/02



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APPROVED ASSEMBLIES

Membrane Type: BUR

Deck Type 5I: Cementitious Wood Fiber, Insulated

Deck Description: Cementitious wood fiber

System Type A: Anchor sheet mechanically fastened; all layers of insulation adhered with

approved asphalt.

All General and System limitations apply.

Anchor Sheet: Install one ply of Ventsulation Felt, GlasBase Plus or PermaPly 28 base sheet as

described below.

Fastening: (Option #1) Any approved fastener listed in this approval (with a current NOA) for

use in cementitious wood fiber decks, attachment at 9" o.c. at the 4" side lap and

two staggered rows of 12" in the center of the sheet.

(Maximum Design Pressure -45 psf, See General Limitation #9)

(Option #2) One ply of GlasPly Premier fastened with ES Products 1.8" Twin Loc-Nail fasteners spaced 9" o.c. at the 3" side lap and two rows staggered 12" o.c.

in the field.

(Maximum Design Pressure -82.5 psf, See General Limitation #7)

One or more layers of any of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ENRGY 3, Fesco Foam, DuraFoam		
Minimum 1" thick	N/A	N/A
Retro-Fit Board, DuraBoard		
Minimum ½" thick	N/A	N/A
Fesco Board		
Minimum ¾" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: (Optional) Install one ply of GlasBase Plus, PermaPly 28, GlasPly Premier or

GlasPly IV directly to the insulated substrate. Adhere in a full mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. If base sheet is applied directly to polyisocyanurate insulation only a spot or strip mopped application as detailed in this approval is approved; See General Limitation #4

Maximum Design Pressure -45 psf applies.

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hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. If ply sheet is applied directly to polyisocyanurate insulation only a spot or strip mopped application as detailed in this approval is approved; **See General Limitation #4**

Maximum Design Pressure -45 psf applies.

Cap Sheet: (Optional) One ply of GlasKap, GlasKap CR or GlasKap Plus adhered in a full

mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing: (Required if no cap sheet is used) Install the following:

1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq.,

respectively.

Maximum Design

Pressure: See Fastening Options Above



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Deck Type 5I: Cementitious Wood Fiber, Insulated

Deck Description: Cementitious wood fiber

System Type B: Base layer of insulation mechanically fastened, optional top layer adhered with

approved asphalt.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ENRGY 3	,	· ·
Minimum 1.3" thick	1, 3 or 5	1:3 ft ²
Fesco Foam, DuraFoam		
Minimum 1.5" thick	1, 3 or 5	1:4 ft ²
Fesco Board, DuraBoard		
Minimum ¾" thick	1, 3 or 5	1:2 ft ²

Note: Base layers of insulation shall be mechanically attached using the fastener density listed. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Protocol TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer (Optional)	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
Any of the insulation listed for Base Layer, above	, ,	•
Retro-Fit Board, DuraBoard		
Minimum ½" thick	N/A	N/A

Note: Optional top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: (Optional) Install one ply of GlasBase Plus, GlasPly Premier, GlasPly IV or

PermaPly 28 directly to the insulated substrate. Adhere in a full mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. If base sheet is applied directly to polyisocyanurate insulation only a spot or strip mopped

applied directly to polyisocyanurate insulation only a spot or strip mopped application as detailed in this approval is approved; **See General Limitation #4**

Maximum Design Pressure -45 psf applies.

Ply Sheet: Two or more plies of GlasPly IV or GlasPly Premier adhered in a full mopping of

hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. If ply sheet is applied directly to polyisocyanurate insulation only a spot or strip mopped application as detailed in this approval is approved; **See General Limitation #4**

Maximum Design Pressure -45 psf applies.



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mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing: (Required if no cap sheet is used) Install the following:

1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq.,

respectively.

Maximum Design

Pressure: -45 psf (See General Limitation #9)



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Deck Type 5I: Cementitious Wood Fiber, Insulated

Deck Description: Cementitious wood fiber

System Type C: One or more layers of insulation simultaneously fastened.

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ENRGY 3 Minimum 1.4" thick	N/A	N/A
Fesco Foam, DuraFoam Minimum 1.5" thick	N/A	N/A
Fesco Board, DuraBoard Minimum ¾" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ENRGY 3 Minimum 1.4" thick	1, 3 or 5	1:3 ft ²
Fesco Foam, DuraFoam Minimum 1.5" thick	1, 3 or 5	1:4 ft ²
Fesco Board Minimum ¾" thick	1, 3 or 5	1:2 ft ²
Retro-Fit Board, DuraBoard Minimum ½" thick	1, 3 or 5	1:2 ft ²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional) Install one ply of GlasBase Plus, PermaPly 28, GlasPly Premier or

GlasPly IV directly to the insulated substrate. Adhere in a full mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. If base sheet is applied directly to polyisocyanurate insulation only a spot or strip mopped application as detailed in this approval is approved; **See General Limitation #4**

Maximum Design Pressure -45 psf applies.

Ply Sheet: Two or more plies of GlasPly IV or GlasPly Premier adhered in a full mopping of

hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. If ply sheet is applied directly to polyisocyanurate insulation only a spot or strip mopped application as detailed in this approval is approved; **See General Limitation #4**

Maximum Design Pressure -45 psf applies.

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mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing: (Required if no cap sheet is used) Install the following:

1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq.,

respectively.

Maximum Design

Pressure: -45 psf (See General Limitation #9)



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Deck Type 5: Cementitious Wood Fiber, Non-Insulated

Deck Description: Cementitious wood fiber

System Type E(1): Base sheet mechanically fastened.

All General and System Limitations apply.

Base Sheet: One ply of GlasPly Premier fastened to the deck as described below:

Fastening: Attach base sheet with ES Products 1.8" Twin Loc-Nail fasteners spaced 9" o.c. at

the 3" side lap and two rows staggered 12" o.c. in the field.

Ply Sheet: Two or more plies of GlasPly IV, GlasPly Premier ply sheet adhered in a full

mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Cap Sheet: (Optional) One ply of GlasKap, GlasKap CR or GlasKap Plus adhered in a full

mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing: (Required if no cap sheet is used) Install the following:

1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq.,

respectively.

Maximum Design

Pressure: -82.5 psf (See General Limitations #7).



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Deck Type 5: Cementitious Wood Fiber, Non-Insulated

Deck Description: Cementitious wood fiber

System Type E(2): Base sheet mechanically fastened.

All General and System limitations apply.

Base Sheet: Install one ply of Ventsulation Felt, GlasBase Plus or PermaPly 28 base sheet

mechanically fastened as described below.

Fastening: Any approved fastener listed in this approval (with a current NOA) for use in

cementitious wood fiber decks, attachment at 9" o.c. at the 4" side lap and two staggered rows of 12" in the center of the sheet (see System Limitations).

Ply Sheet: Two or more plies of GlasPly IV, GlasPly Premier ply sheet adhered in a full

mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Cap Sheet: (Optional) One ply of GlasKap, GlasKap CR or GlasKap Plus adhered in a full

mopping of hot asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing: (Required if no cap sheet is used) Install the following:

1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq.,

respectively.

Maximum Design

Pressure: -45 psf (See General Limitation #9)

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GENERAL LIMITATIONS:

- 1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
- 3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
- 4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
- 5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
- 6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
- 7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- 8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
- 9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- 10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



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